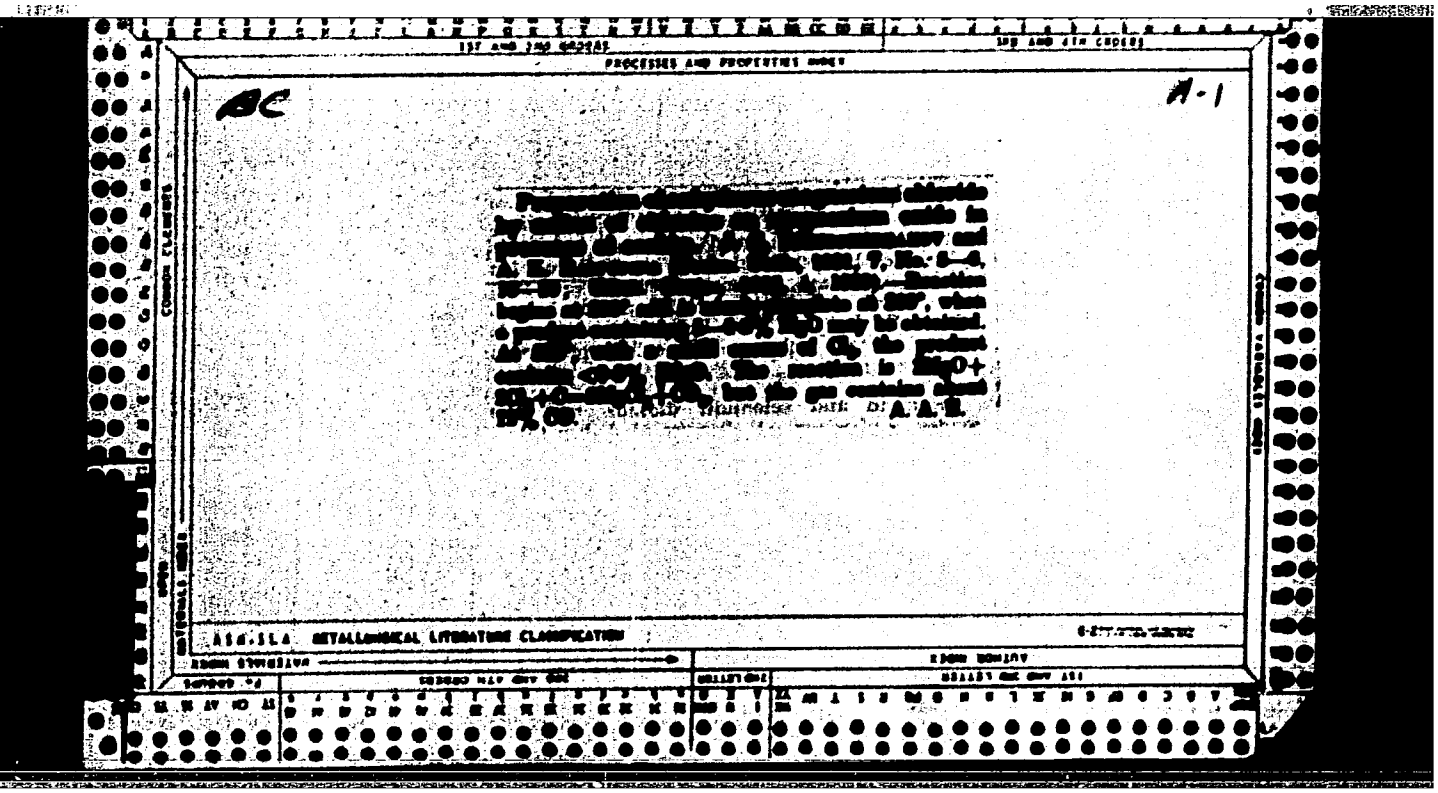
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

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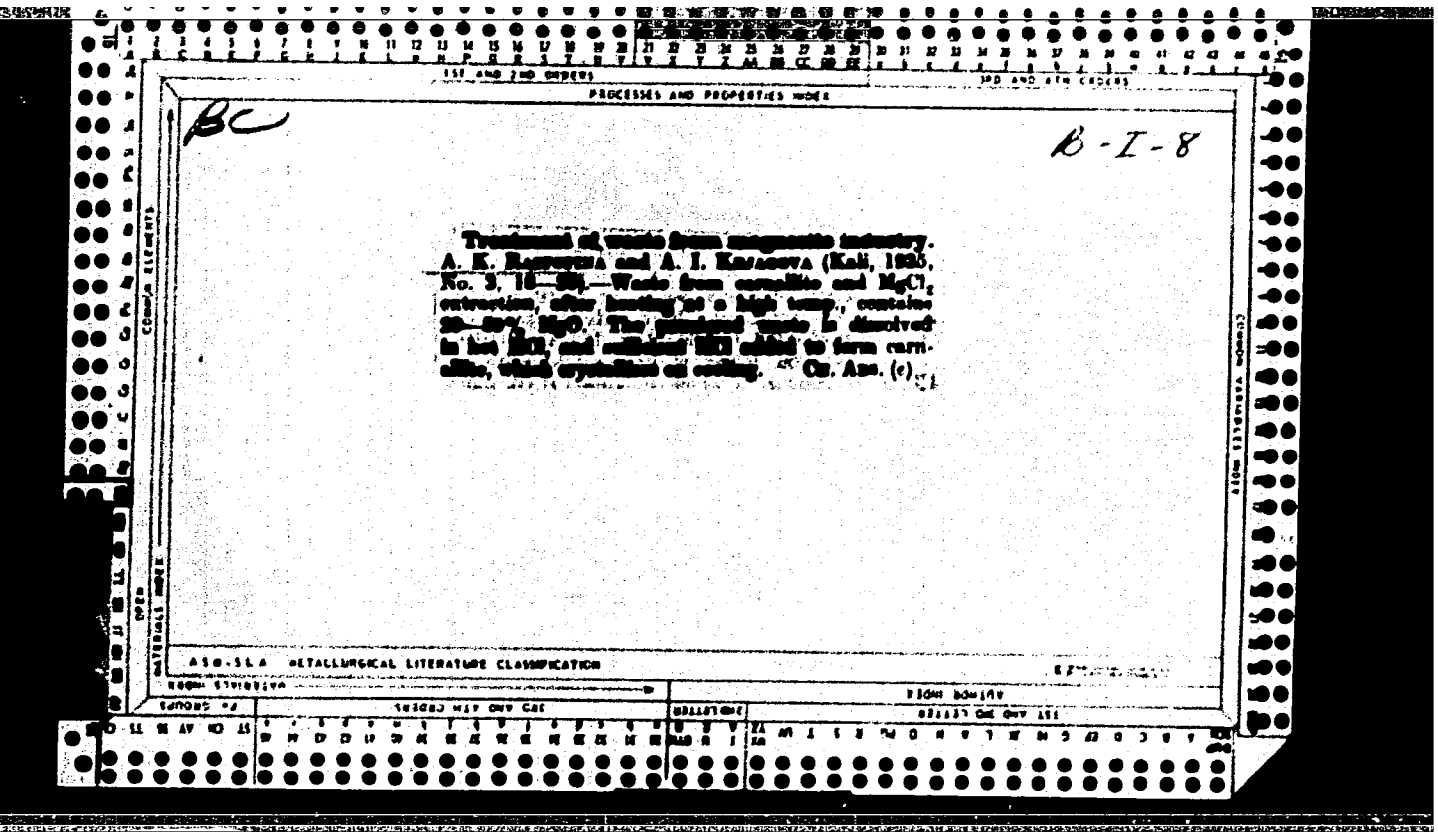


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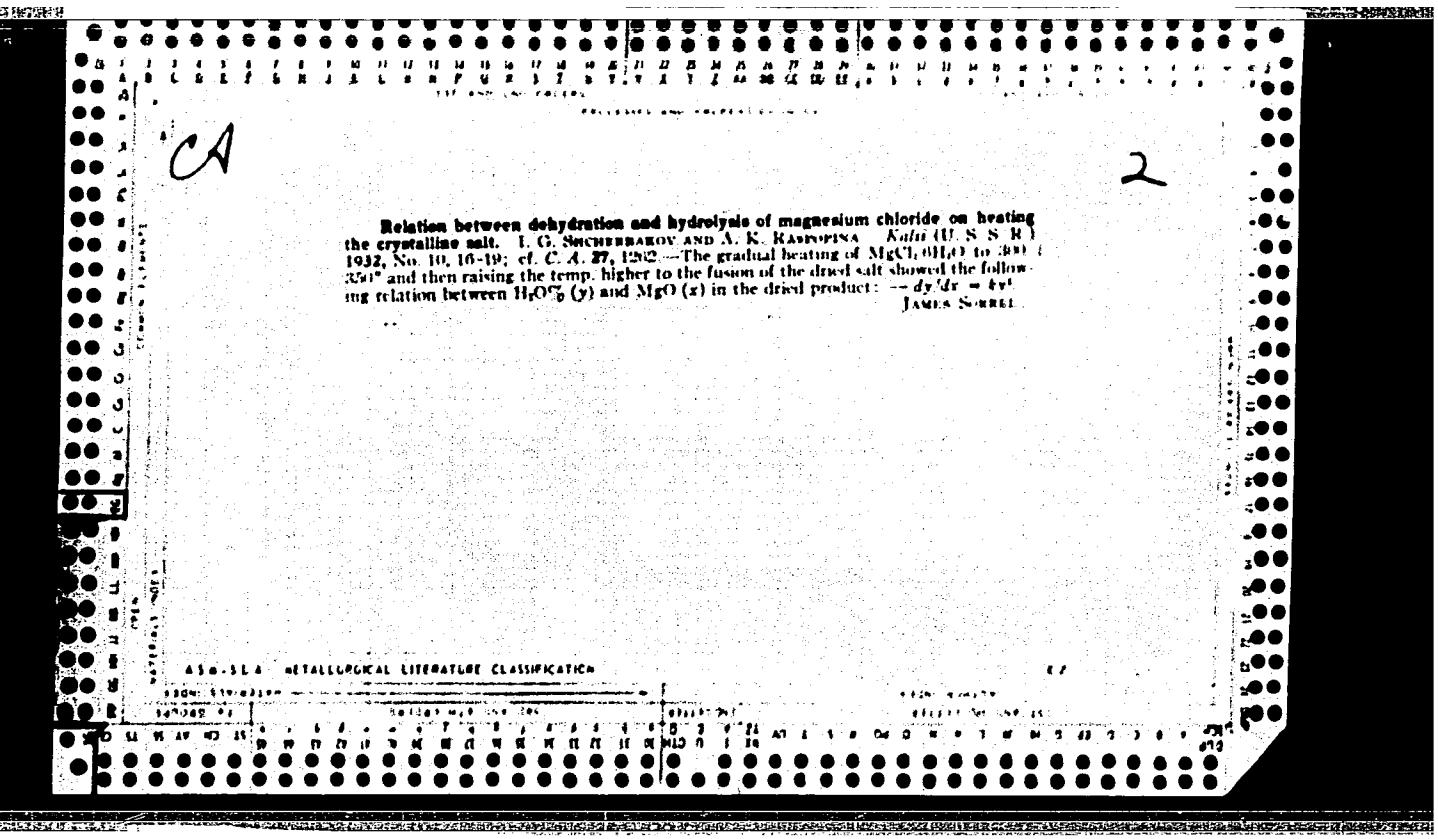

CA

2

**Relation between dehydration and hydrolysis of magnesium chloride on heating the crystalline salt.** I. G. Shcherbakov and A. K. Rastorgina. *Kalii* (U. S. S. R.) 1932, No. 10, 16-19; cf. *C. A.* **27**, 1202.—The gradual heating of $MgCl_2 \cdot 6H_2O$ to 300-350° and then raising the temp. higher to the fusion of the dried salt showed the following relation between $H_2O\%$ (y) and MgO (x) in the dried product: $-dy/dx = ky^4$.
James Scherr

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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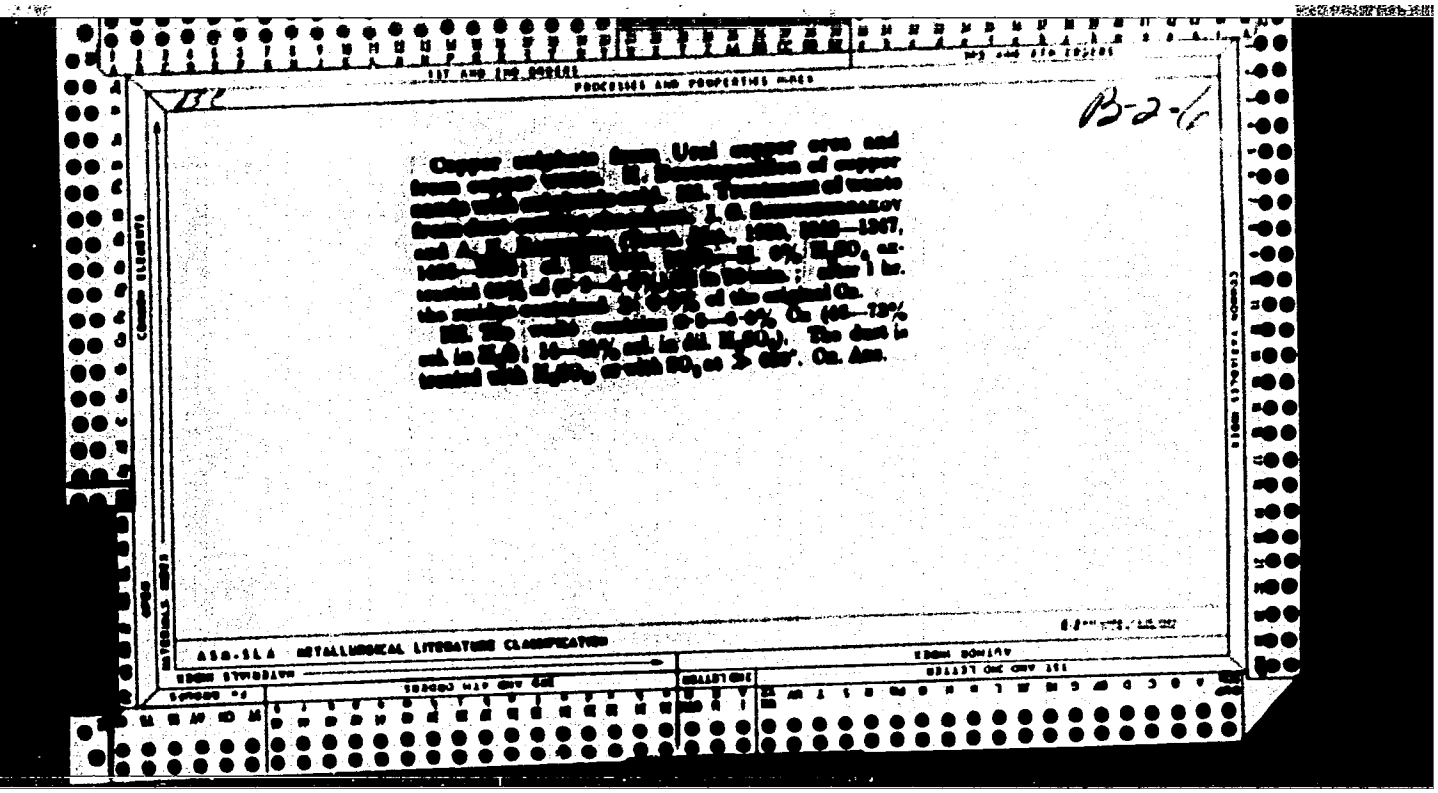

B-2-6

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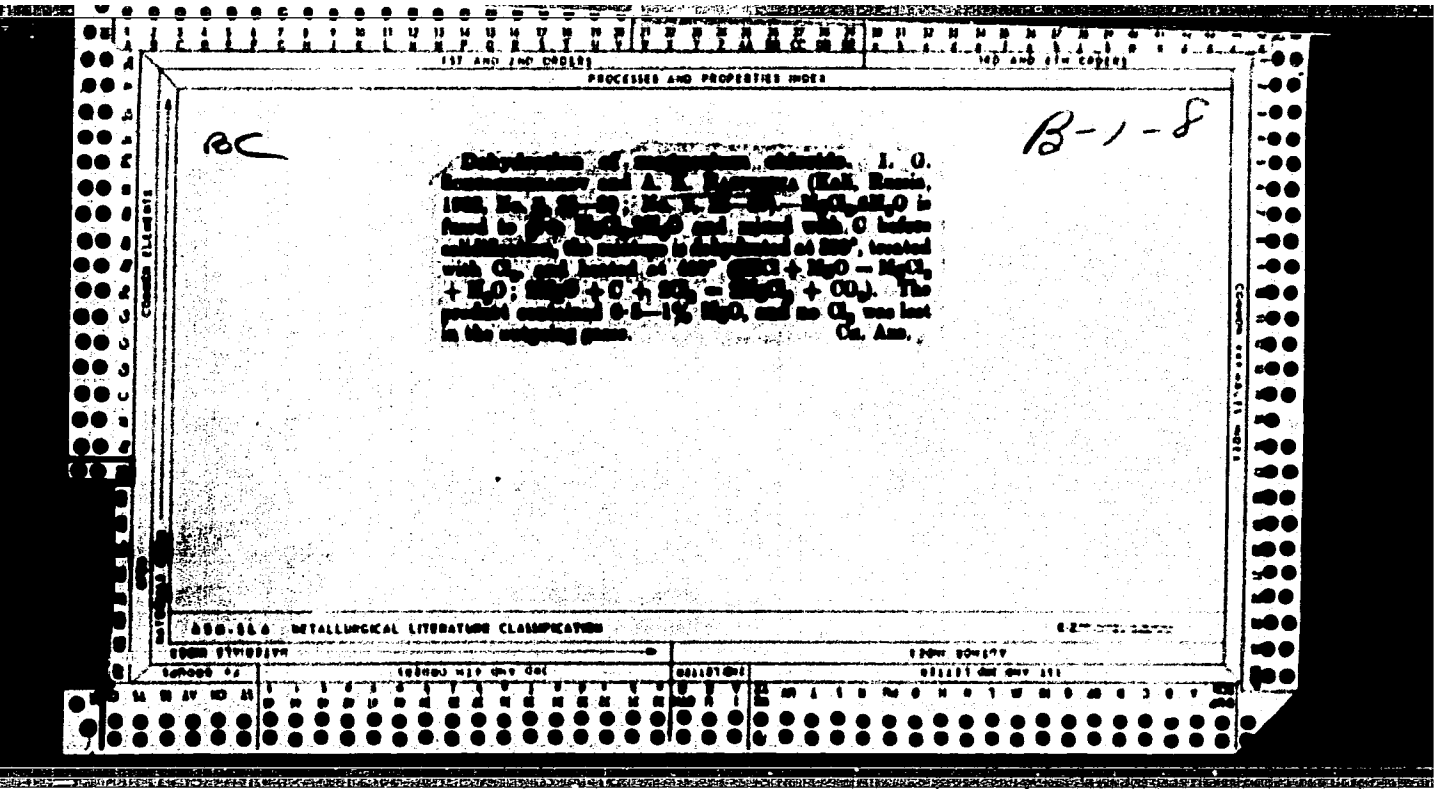
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

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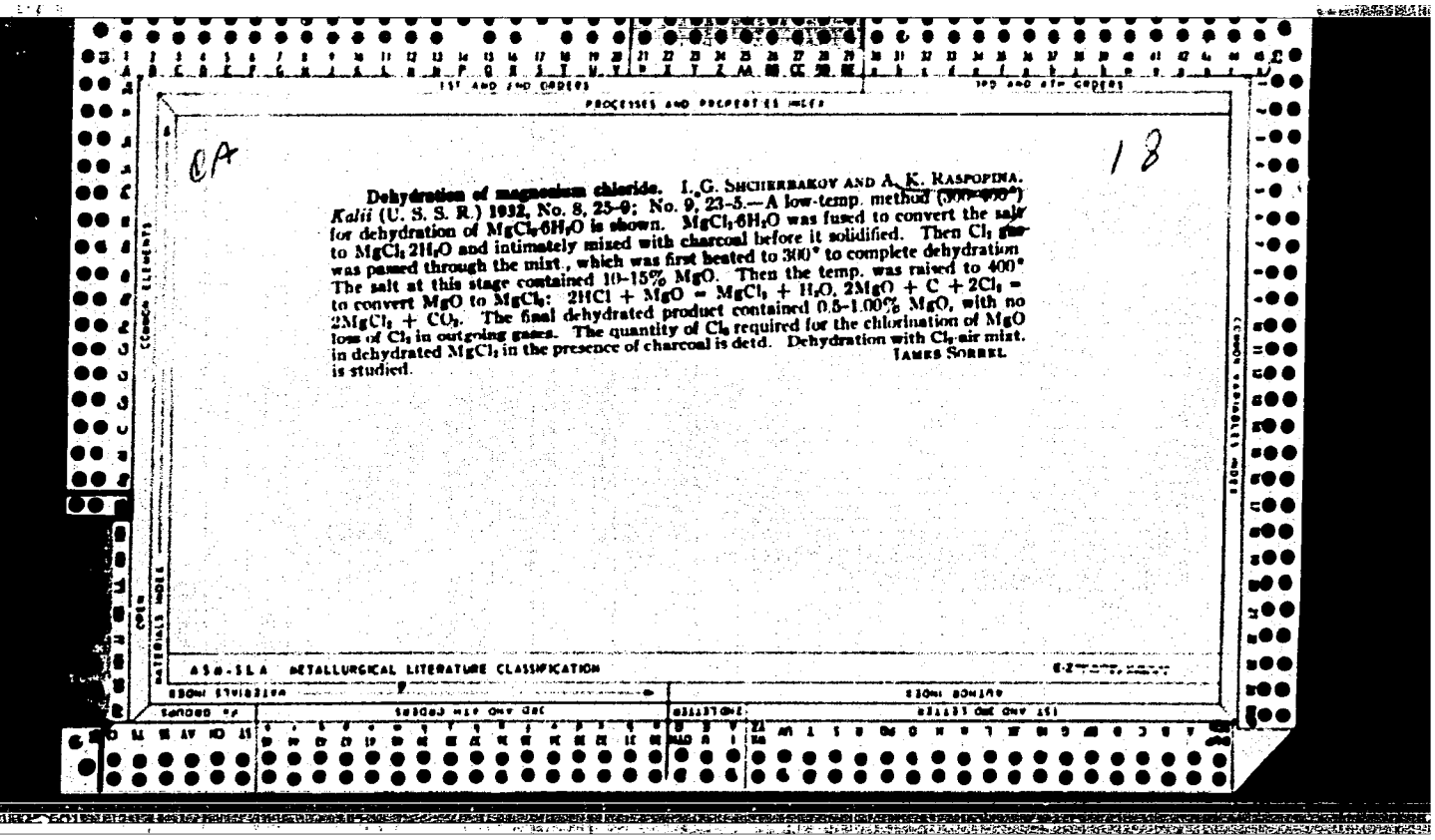
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



CA 18

**Dehydration of magnesium chloride.** I. G. Shcherbakov and A. K. Raspopina. *Kalii* (U. S. S. R.) **1932**, No. 8, 25–9; No. 9, 23–5.—A low-temp. method (300–400°) for dehydration of $MgCl_2 \cdot 6H_2O$ is shown. $MgCl_2 \cdot 6H_2O$ was fused to convert the salt to $MgCl_2 \cdot 2H_2O$ and intimately mixed with charcoal before it solidified. Then $Cl_2$ gas was passed through the mixt., which was first heated to 300° to complete dehydration. The salt at this stage contained 10–15% MgO. Then the temp. was raised to 400° to convert MgO to $MgCl_2$: $2HCl + MgO = MgCl_2 + H_2O$, $2MgO + C + 2Cl_2 = 2MgCl_2 + CO_2$. The final dehydrated product contained 0.5–1.00% MgO, with no loss of $Cl_2$ in outgoing gases. The quantity of $Cl_2$ required for the chlorination of MgO in dehydrated $MgCl_2$ in the presence of charcoal is detd. Dehydration with $Cl_2$-air mixt. is studied.

James Sorrel

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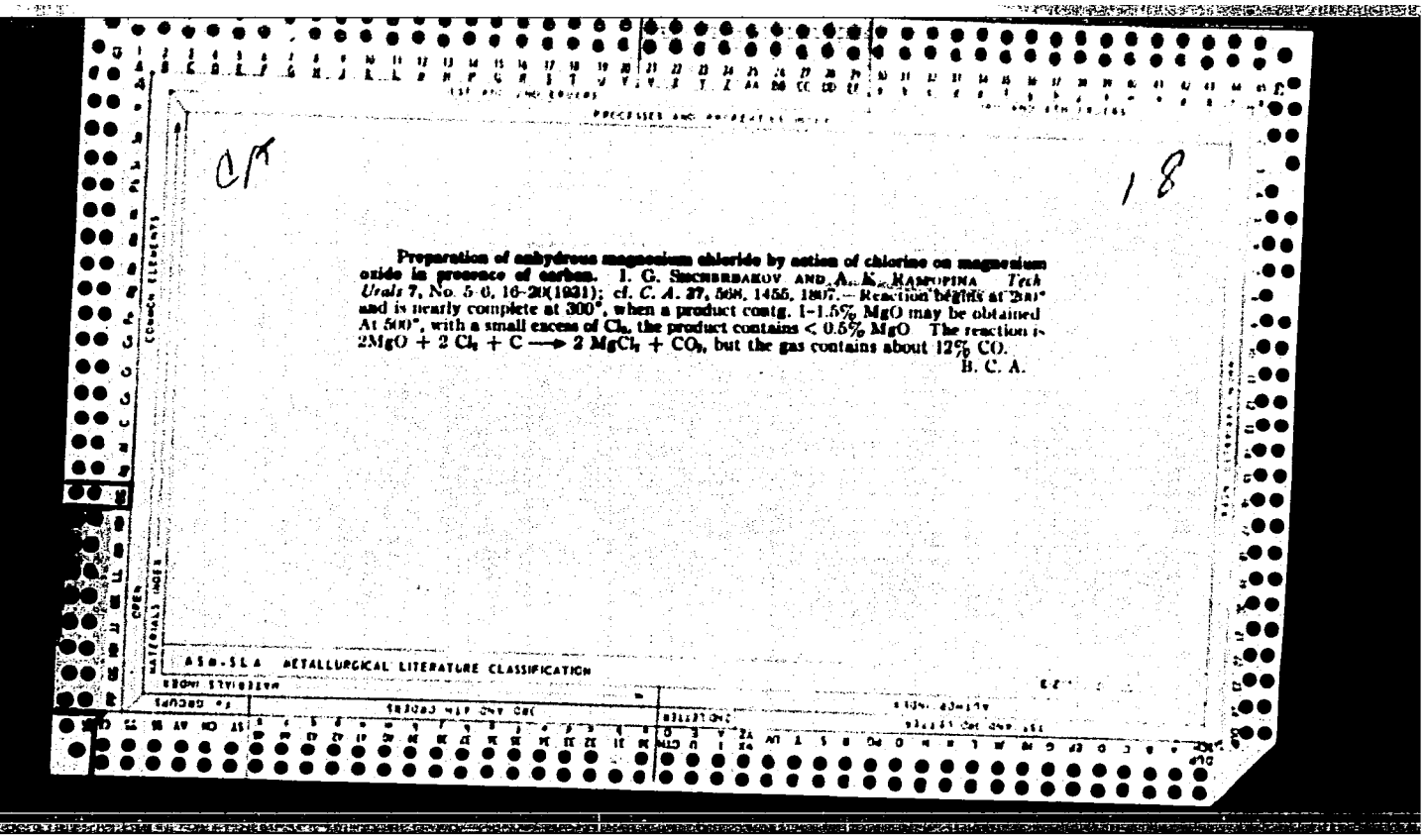
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



CK

18

**Preparation of anhydrous magnesium chloride by action of chlorine on magnesium oxide in presence of carbon.** I. G. Shchiberbakov and A. K. Mamontina *Tech Urals* 7, No. 5-6, 16-20(1931); cf. *C. A.* 27, 568, 1455, 1807.—Reaction begins at 200° and is nearly complete at 300°, when a product contg. 1–1.5% MgO may be obtained At 500°, with a small excess of $Cl_2$, the product contains < 0.5% MgO The reaction is $2MgO + 2Cl_2 + C \longrightarrow 2MgCl_2 + CO_2$, but the gas contains about 12% CO.
B. C. A.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

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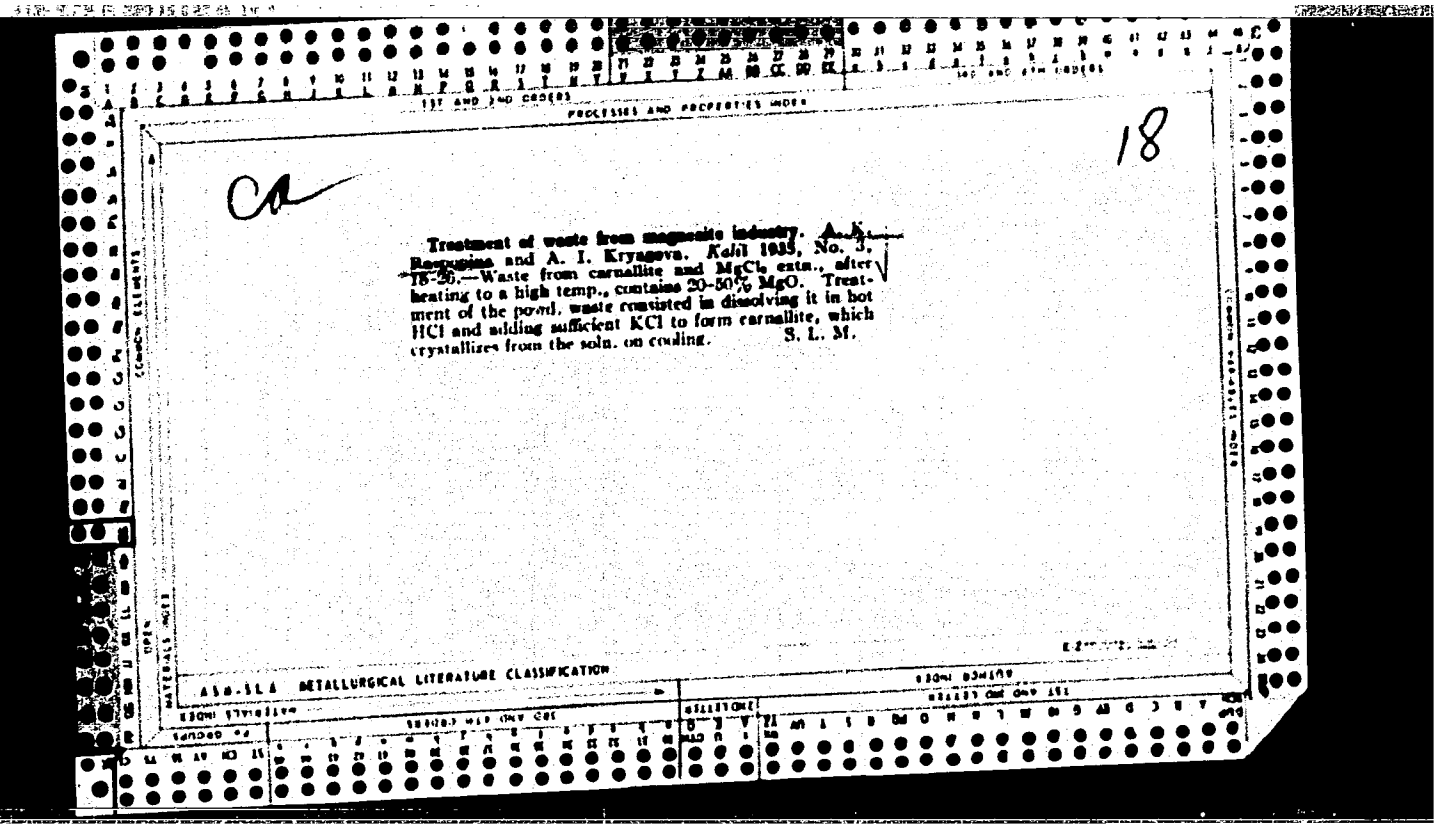
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



18

Treatment of waste from magnesite industry. A. A. Rzegunina and A. I. Kryanova. *Kolil* 1935, No. 3, 18-20.—Waste from carnallite and $MgCl_2$ extn., after heating to a high temp., contains 20-50% MgO. Treatment of the pond, waste consisted in dissolving it in hot HCl and adding sufficient KCl to form carnallite, which crystallizes from the soln. on cooling. S. L. M.

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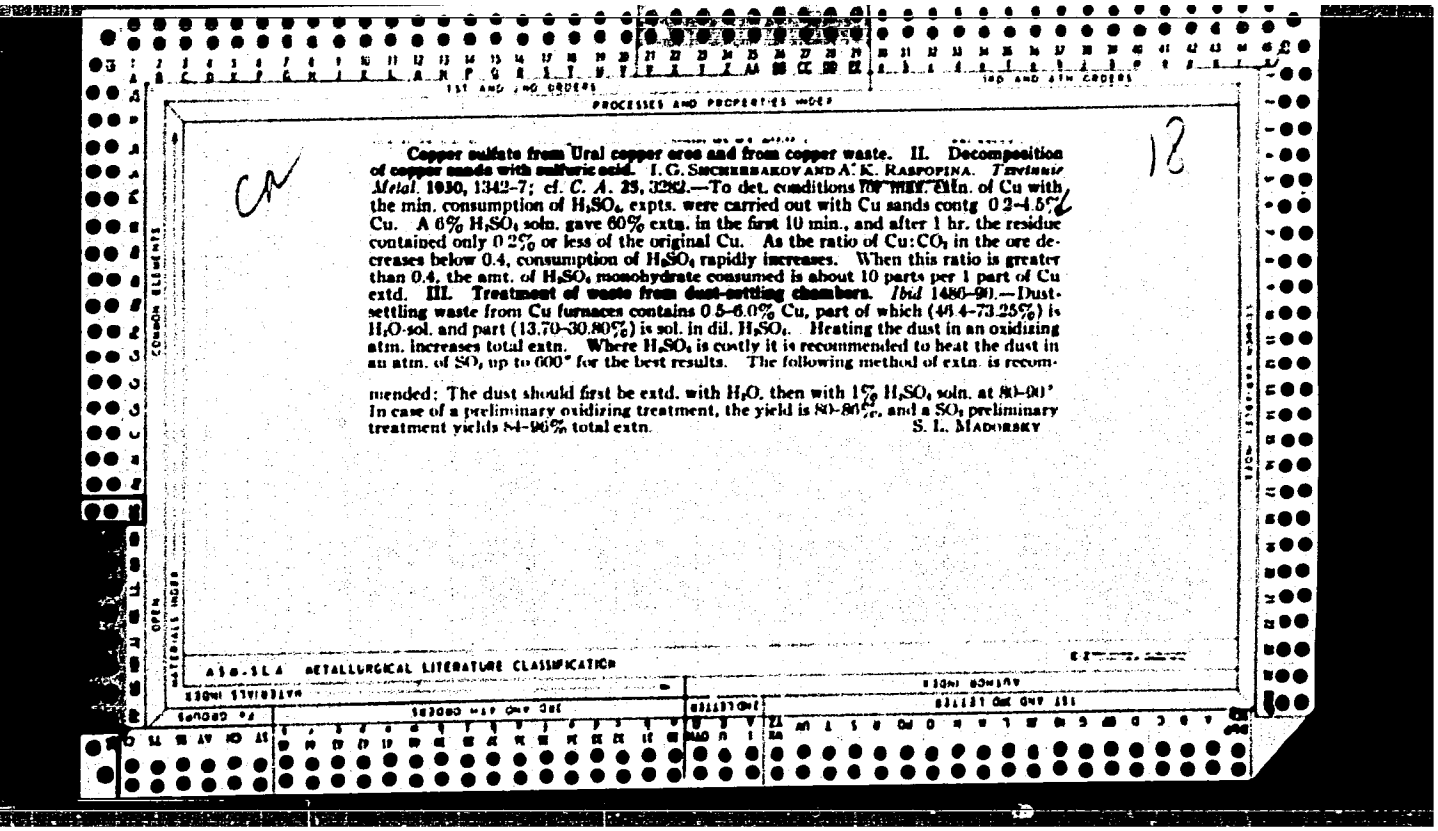

**Copper sulfate from Ural copper ores and from copper waste. II. Decomposition of copper sands with sulfuric acid.** I. G. Shcherbakov and A. K. Raspopina. *Tsvetnie Metal.* **1930**, 1342–7; cf. *C. A.* **25**, 3292.—To det. conditions for max. extn. of Cu with the min. consumption of $H_2SO_4$, expts. were carried out with Cu sands contg 0.2–4.5% Cu. A 6% $H_2SO_4$ soln. gave 60% extn. in the first 10 min., and after 1 hr. the residue contained only 0.2% or less of the original Cu. As the ratio of Cu:$CO_2$ in the ore decreases below 0.4, consumption of $H_2SO_4$ rapidly increases. When this ratio is greater than 0.4, the amt. of $H_2SO_4$ monohydrate consumed is about 10 parts per 1 part of Cu extd. **III. Treatment of waste from dust-settling chambers.** *Ibid* 1486–90.—Dust-settling waste from Cu furnaces contains 0.5–6.0% Cu, part of which (46.4–73.25%) is $H_2O$-sol. and part (13.70–30.80%) is sol. in dil. $H_2SO_4$. Heating the dust in an oxidizing atm. increases total extn. Where $H_2SO_4$ is costly it is recommended to heat the dust in an atm. of $SO_2$ up to 600° for the best results. The following method of extn. is recommended: The dust should first be extd. with $H_2O$, then with 1% $H_2SO_4$ soln. at 80–90°. In case of a preliminary oxidizing treatment, the yield is 80–86%, and a $SO_2$ preliminary treatment yields 84–96% total extn.

S. L. Madorsky

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BELYAYEV, V.N., dots., kand. tekhn.nauk; BOGATYREV, I.S., kand. tekhn. nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V., st. prepod.; GADOLIN, V.L., dots., kand. tekhn. nauk; GOFMAN, E.I., dots.; DROZDOV, N.A., dots., kand. tekhn.nauk; ZAYTSEVA, L.I., inzh.; IVANOV, V.N., dots., kand. tekhn. nauk; KOROVIN, B.I., dots., kand. tekhn. nauk; LUKIN, V.I., dots., kand. tekhn.nauk; MORIN, I.S., dots., kand. tekhn. nauk; OGRINCHUK, I.A., inzh.; PALOCHKINA, N.V., inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P., kand. tekhn.nauk[deceased]; RASPOPOV, A.G., st. prepod.; RESHETOV, D.N., prof., doktor tekhn. nauk; KASPEROVICH, N.S., inzh., red.; TIKHANOV, A.Ya., tekhn. red.

[Machine parts; atlas of designs] Detali mashin; atlas konstruktsii. Izd.2., perer. i dop. Moskva, Mashgiz, 1963.363 p. (MIRA 16:12)

1. Kollektiv kafedry "Detali mashin" Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana (for all except Kasperovich, Tikhanov).

(Machinery--Design and construction)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

LUKICHEV, D.M., kandidat tekhnicheskikh nauk; NIKONOROV, V.A., inzhener; [redacted], inzhener.

The Moscow Technical College's roller station for testing locomotives. [Trudy] MVTU no.43:6-23 '55. (MLRA 9:8)
(Locomotives--Testing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BELYAYEV, V.N., dots., kand. tekhn. nauk; BOGATYREV, I.S., dots., kand. tekhn. nauk; BULANZHE, A.V., dots.; VYBORNOV, P.V., st. prepod.; GADOLIN, V.L., dots., kand. tekhn. nauk; GOFMAN, E.I., st. prepod.; DROZDOV, N.A., dots., kand. tekhn. nauk; ZAYTSEVA, L.I., inzh.; IVANOV, V.N., dots., kand. tekhn. nauk; KOROVIN, B.I., dots., kand. tekhn. nauk; LUKIN, V.I., dots., kand. tekhn. nauk; MORIN, I.S., dots., kand. tekhn. nauk; OGRINCHUK, I.A., inzh.; PALOCHKINA, N.V., inzh.; POLYAKOV, D.G., dots.; PARGIN, D.P., kand. tekhn. nauk; RASPOPOV, A.G., st. prepod.; RESHETOV, D.N., prof., doktor tekhn. nauk; STOLBIN, G.B., dots., kand. tekhn. nauk, retsenzent; KASPEROVICH, N.S., inzh., red.; SMIRNOVA, G.V., tekhn. red.; UVAROVA, A.F., tekhn. red.

[Machine parts; atlas of designs] Detali mashin; atlas konstruktsii. Moskva, Mashgiz, 1962. 346 p. (MIRA 15:3)

1. Kafedra "Detali mashin" Moskovskogo vysshego tekhnicheskogo uchilishcha im. Baumana (for all except Stolbin, Kasperovich, Smirnova, Uvarova).

(Machinery--Design)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, A.P., doktor med.nauk

Professor Miron Grigor'evich Dodin; on his 90th birthday.
Vest.otorin. 21 no.3:103 My-Je '59. (MIRA 12:9)
(BIOGRAPHIES
Grigor'evich, Miron G. (Rus))

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KASPOROV, A. P.

35479. K voprosu o latentnykh tuberkuleznykh ochagakh v gortani. Byulleten' In-ta tuberkuleza akad. Med. Nauk SSSR, 1949, No. 3, c. 35-39.

Letopis' Zhurnal'nykh Statey, Vol. 48, Moskva, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

Raspopov, N.P.

AGEYEVA-MAYKOVA, O.G.; VOYACHEK, V.I.; YERMOLAYEV, V.G.; KULIKOVSKIY, G.G.; LIKHACHEV, A.G.; NEYMAN, L.V.; RASPOPOV, A.P.; SUPRUNOV, V.K.

Boris Sergeevich Preobrazhenskii; 60th anniversary of birth. Vest. otorinolar., Moskva 14 no. 3:97-100 May-June 1952. (CLML 22:4)

1. Preobrazhenskiy is editor of Vestnik oto-rino-laringologii and attached to the Therapeutic Sanitary Administration for the Kremlin. Is Active Member of the Academy of Medical Sciences USSR. Awarded Order of Lenin in 1943. Is Chairman of the Administration of the All-Union Society of Otolaryngologists.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, A.P.

Albucid-sodium in the treatment of chronic otitis media. Vest. otorinolar., Moskva 14 no. 5:71 Sept-Oct 1952. (CIML 23:3)

1. Doctor Medical Sciences. 2. Moscow.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, B., insh.

Faster than the wind. IUn.tekh. 7 no.11:78-80 N '62.
(MIRA 15:12)

(Iceboats)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, B. D.

RASPOPOV, B.D.

[Speed demon] Master skorosti. Moskva, Fizkul'tura i sport, 1953.
68 p. (MLRA 7:7)
(Automobile racing)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, B.M. (Frunze)

Optimal response time for uncorrelated heat and mass transfer processes. Avtom. i telem. 26 no.10:1857-1861 O '65.

(MIRA 18:10)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, B.P.

Repairing gear pumps with a worn-out casing. Vest.mash. 33 no.5:79 My '53. (MLRA 6:5)

1. Kievskiy avtoremontnyi zavod. (Pumping machinery)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

GELLER, E.; RASPOPOV, I.

Resistance of larvae and eggs of the Amidostomum anseris to the Kursk winter. Uch.zap.Kursk.gos.ped.inst. 12:70-73 '61. (MIRA 17:4)

1. Kafedra zoologii Kurskogo gosudarstvennogo pedagogicheskogo instituta.

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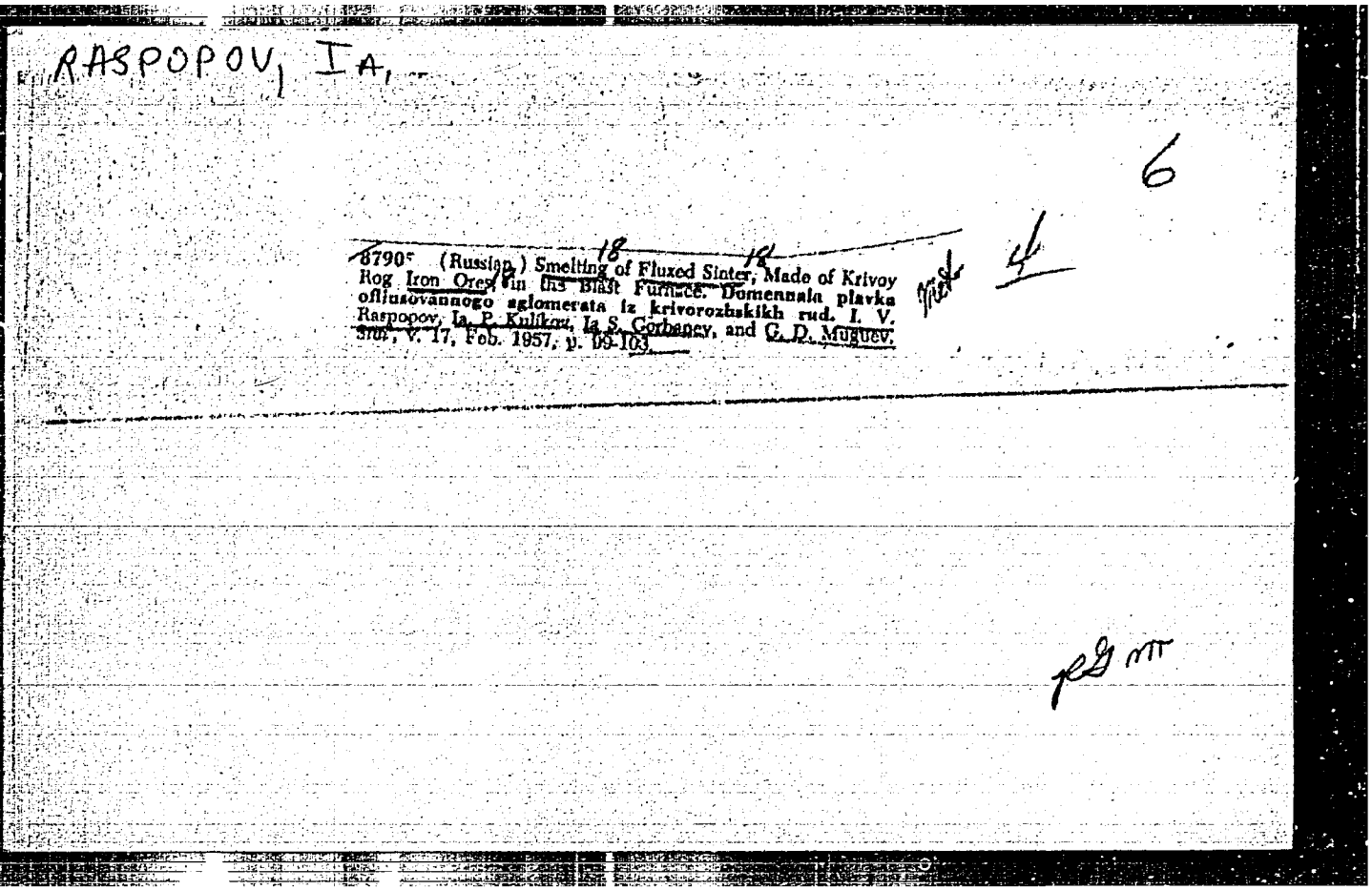
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344



RASPOPOV, I A,

6

8790 (Russian) Smelting of Fluxed Sinter, Made of Krivoy Rog Iron Ores in the Blast Furnace. Domennaia plavka oflusovannogo aglomerata iz krivorozhskikh rud. I. V. Raspopov, Ia. P. Kulikov, Ia. S. Gorbanev, and G. D. Muguev. Stal', v. 17, Feb. 1957, p. 99-103.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I. M.

Dissertation: "Natural Restoration of the Oak Forests of the Crimean State Forest Preserve." Cand Geog Sci, Leningrad State U, Leningrad, 1953. (Referativnyy Zhurnal--Geologiya/Geografiya, Moscow, Aug 54)

SO: SUM 393, 28 Feb 1955

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

1. RASPOPOV, I. M.

2. USSR (600)

4. Phytoncides

7. Reaction of phytoncides of certain plants on insects. Priroda 42, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Plants and ticks. Priroda 42 no.11:115 N '53. (MLRA 6:11)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
(Forest insects)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Method of studying profiles of tree crowns. Bot.zhur.40 no.6:825-827 N-D '55. (MLRA 9:4)

1.Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova.
(Forests and forestry--Mensuration)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Higher aquatic vegetation in small bodies of water located between the Khoper and Medveditsa rivers. Trudy Lab. ozeroved. 7:112-117 '58. (MIRA 11:10)

1. Laboratoriya ozerovedeniya AN SSSR.
(Khoper Valley--Fresh-water flora)
(Medveditsa Valley--Fresh-water)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Floating mats formed by Poa palustris L. Bot. zhur. 43 no.1:112-114 Ja '58. (MIRA 11:2)

1. Laboratoriya ozerovedeniya AN SSSR, Leningrad.
(Vyazovka District (Balashov Province)--Meadow grass)
(Ponds)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

SOV/26-59-2-37/53

30(1)
AUTHOR: Raspopov, I.M., Candidate of Geographical Sciences ~~(Leningrad)~~

TITLE: The Vegetation in a Spring-Fed Bog in the Crimean Mountains (Rastitel'nost' klyuchevogo bolota v Krymskikh gorakh)

PERIODICAL: Priroda, 1959, Nr 2, pp 110-111 (USSR)

ABSTRACT: The author describes two adjacent spring-fed bogs on the steep southern slope of the spurs of Malaya Chuchel' Mountain in the center of the Krymskiy zapovednik im. V.V. Kuybysheva (Crimean Forest Reservation imeni V.V. Kuybyshev). An annual precipitation over 1,000 mm falls on these slopes and gives rise to many brooks and streams. The two bogs are 200 m apart trough-like folds of 85x50 and 60x40 m. They are fed by the water of small sources and have only an insignificant run-off. While the surrounding forest is made up of beech trees, black alder trees of the Alnus glutinosa (L. Gaertn.) species are the only trees in the two bogs. These alder trees have

Card 1/2

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

17 (4)
AUTHOR: Raspopov, I. M. SOV/20-126-5-64/69

TITLE: On the Ecology of Isoetes lacustris L. (K ekologii polushnika ozernogo (Isoetes lacustris L.))

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 5, pp 1137 - 1138 (USSR)

ABSTRACT: In all phylographies of the USSR (Refs 1-4) it is mentioned that the fern species Isoetes lacustris grows on the ground of lakes with more or less clear water. These plants are said to be scarcely found on turf ground and on muddy shores. In the year 1957 the Ladozhsakya ekspeditsiya (Lake of Ladoga Expedition) of the laboratory mentioned in the Association has found the contrary by hydrobotanical investigations on using the diving equipment: Isoetes grows equally frequently both on sandy and on muddy grounds. The stalk entirely sticks in the mud, the leaves to the half. This can not at all be explained by the annual collection of sedimentary material because it is here insignificant. Until now Isoetes was not found on muddy grounds in consequence of imperfect collecting methods. An other datum in the phylographies to be corrected is the form of the leaves at Is. lacustris reminding here more of Is. tenella (Dur. Len.

Card 1/2

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On the Ecology of Isoetes lacustris L. SOV/20-126-5-64/69

et Desv.): the leaves of nearly all specimens of the cliff part of the lake of Ladoga have arched backward bended leaves although other marks suit well to the diagnosis of Is. lacustris. Apparently the straight figure of the leaves can not be taken as species mark of this plant. There are 1 figure and 4 Soviet references.

ASSOCIATION: Laboratoriya ozerovedeniya Akademii nauk SSSR (Laboratory of Limnology of the Academy of Sciences, USSR)

PRESENTED: March 19, 1959, by D. V. Nalivkin, Academician

SUBMITTED: February 4, 1959

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Aquatic and shore vegetation of ponds in the upper section of the Buzuluk Basin. Trudy Lab. ozeroved. 9:94-127 '60. (MIRA 13:8)
(Buzuluk Valley (Stalingrad Province)--Farm ponds)
(Fresh-water flora)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Characteristics of the filling of the Polivnoy Pond with vegetation as related to variations in its water volume. Trudy Lab. ozeroved. 9:300-308 '60. (MIRA 13:8)
(Vyazovka District (Stalingrad Province)--Farm ponds)
(Fresh-water flora)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I-M

Among the titles and authors of papers and other expected participants at the 15th International Congress of Limnology in Madison, Wisconsin, 20-25 Aug 62, are the following:

USSR

CATEVSKAYA, M. S., Kaliningrad College of Fishery,
Kaliningrad - "The role of high aquatic plants in trophic cycles of fresh water bodies."

GORBUNOV, K. V., Astrakhan State Reservation, Astrakhan - "The role of cellulose bacteria in biological productivity of water bodies."

IVLEV, V. S., Sevastopol Biological Station
Ismi A. O. Kovalevsky, Sevastopol - "The transformation of energy on the highest trophic levels of a production process" and "Energetics of fish production" (Review Paper, Session II)

KORDE, Nina Vitalyevna, Laboratory of Forestry, Academy of Sciences USSR - "On trophic of water bodies on different stages of their historical development."

KROGIUS, F. V., Kazakhstan Department, Pacific Institute of Marine Fishery and Oceanography - "On the connection of rearing down of young fish of red salmon with the condition in a lake."

KRUKEN, Yevgeniy Mikhaylovich, Kazakhstan Department, Pacific Institute of Marine Fishery and Oceanography - "The influence of a diversion and Oceanography - "The influence of a diversion of salination of red salmon producers on the phosphate regime of spawning lakes."

KUZNETSOV, Sergey Ivanovich, Institute of Microbiology, Academy of Sciences USSR - "The role of microorganisms in the destruction of organic substances in a water body" and, "Decomposition-substances in a water body" and, "Decomposition-Processes, results and limnological significance, microbiological" (Plenary Session IV)

MESHKOVA, Tatyana, Dr., Hydrobiology Station, Sevan, Armenian SSR - (Has accepted invitation but has not submitted paper)

PANKRATOVA, V. Ya., Zoological Institute, Academy of Sciences USSR - "On the evolution of tendipedids larvae (Chironomidae) in connection with the conditions of existence."

RASPOPOV, I. M., Laboratory of Limnology, Academy of Sciences USSR - "On the main concepts and directions of hydrobotany in the Soviet Union"

RODINA, A. G., Zoological Institute, Academy of Sciences USSR - "Microbiology of the detritus of lakes."

ROSSOLIMO, L. L., Institute of Geography, Academy of Sciences USSR, and GLAZIY, Grigoriy I., Siberian Department of the Academy of Sciences USSR - "The Lake Baykal."

SKORIKOV, Nikolayevich, Institute of Biology of Water Reservoirs, Academy of Sciences USSR - "Ecology of the phytoplytic Polytrofa in connection with the estimation of the role of the littoral zone of the life of Volga water reservoirs."

SOKOLNIKOV, O. M., Limnological Institute, Siberian Department of the Academy of Sciences USSR - "The ice regime of the Baykal Lake."

STROGANOV, N. S., Biological Faculty, Moscow University, Moscow - "Influences of small concentrations of poisonous matter on hydro-organisms" and "On the question of the influence of sewage on waters."

VOYNITSKY, K. K., Limnological Institute, Siberian Department, Academy of Sciences USSR - "Turn-over of the organic matter and some biogenic elements in the Baykal Lake"

YANKOVSKAYA, Aleksandra Ivanova, Zoological Institute, Academy of Sciences USSR - "The Fauna of high mountain water bodies of Middle Asia."

ZHADIN, V. I., Zoological Institute, Academy of Sciences USSR - "Migration of the radioactive phosphorus at fertilizing a water body"

ZENKEVICH, P. A., Dnepropetrovsk Scientific Institute of Hydrobiology of the State University, Ukrainian SSR - "Acclimatization of fishes' food organisms from the fauna of estuary complex (of the 'Caspian relict type') in water reservoirs of the Ukraine and the Crimea."

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M.

Higher aquatic vegetation in the skerry region of Lake Ladoga.
Trudy Lab. ozeroved. 12:193-210 '61. (MIRA 15:3)
(Ladoga, Lake--Fresh-water flora)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KALESNIK, S.V.; ARKHANGEL'SKIY, A.M.; DAVYDOV, A.F., kand. nauk; MALININA, T.I., kand. nauk; PETROVA, N.A., kand. nauk; RASPOPOV, I.M., kand. geogr. nauk master sporta SSSR po turizmu; SEMENOVICH, N.I., kand. nauk; DOBKOVICH, V.V., kand. nauk; MATYUSHIN, V.P., kand. nauk; SLOBOZHAN, I.I., red.; TIKHONOVA, I.M., tekhn. red.

[For you, tourists! How to conduct observations of nature during a trip] Vam, Turisty! Kak provodit' nabliudeniia nad prirodoi v pokhode. Izd.2 per. i dop. [By] A.F.Davydov i dr. Leningrad, Lenizdat, 1963. 280 p. (MIRA 16:10)

1. Chlen-korrespondent AN SSSR (for Kalesnik).
(Nature study) (Tourism)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.M. (Leningrad)

Basic concepts and trends of hydrobotany in the Soviet Union.
Usp. sovr. biol. 55 no.3:453 -464 My-Je'63 (MIRA 17:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KONKINA, N.G.; RASPOPOV, I.M.

All-Union Conference on the Problems of the Cycle of Matter and Energy in Lake Bodies. Vest. LGU 19 no.24:159-160 '64
(MIRA 18:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

MALININA, T.I.; RASPOPOV, I.M.

Discussion of basic problems of Soviet limnology. Izv. Vses. geog. ob.-va 97 no.2:202-203 Mr-Ap '65. (MIRA 18:5)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASTORGUEV, I.M., kand. geograf. nauk (Leningrad)

16th International Limnological Congress. Priroda 54 no.11: 117-118 '65. (MIRA 18:11)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

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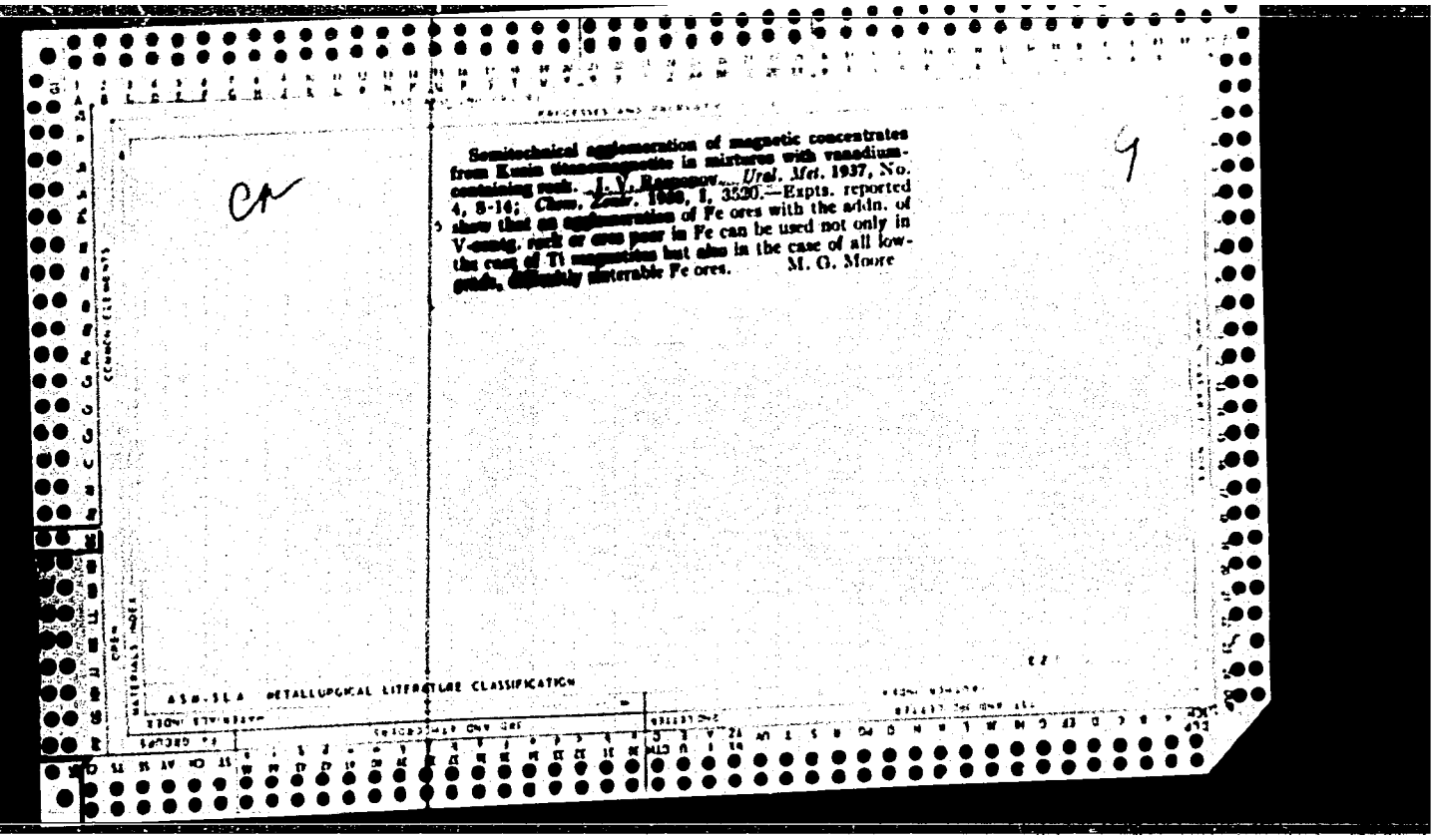

Semitechnical agglomeration of magnetic concentrates from Kusin titanomagnetite in mixture with vanadium-containing rock. I. V. Rassonov. *Ural. Met.* 1937, No. 4, 8-14; *Chem. Zentr.* 1938, I, 3520.—Expts. reported show that an agglomeration of Fe ores with the addn. of V-containg. rock or ores poor in Fe can be used not only in the case of Ti magnetites but also in the case of all low-grade, difficultly reducible Fe ores. M. G. Moore

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PA - 2390

AUTHOR: RASPOPOV,I.V., Lecturer, and KILIKOV,YA.P., GORBANEV,YA.S., and MUGUYEV,G.D., Engineers; Metallurgical Institute Zhdanov and "Azovstal"-Work. (Zhdanovskiy metallurgicheskiy institut i zadov "Azovstal'").

TITLE: Smelting of fluxed Sinter, Made of Krivoy Rog Iron Ores, in the Blast Furnace. (Domennaya plavka oflyusovannogo aglomerata uz krivorozhskikh rud. Russian).

PERIODICAL: Stal', 1957, Vol 17, Nr 2, pp 99 - 103 (U.S.S.R.).
Received: 5 / 1957 Reviewed: 5 / 1957

ABSTRACT: In a blast furnace with a useful volume of 1300 $m^3$ a burden with an increased basicity was melted. The gas pressure under the charge was up to 0,8 atm. overpressure and it was blown with a constant humidity with heating up to 850°. Beginning with March 1955 the usual agglomerate was replaced by blust furnace burden. A report on the working technique of the furnace follows and as a summary the following is stated: The smelting of the agglomerate of the Krivoy Rog iron ore which is mixed with bases of up to 1,2 is technically possible and economically useful. By the change of the furnace operations from usual agglomerate to one supplied with additions (burden) with a basicity of 1,0 the specific coke consumption was reduced by 16%, the working capacity was increased by 8,3%, self costs of the cast iron were lowered by 10% (without reducing its quality) and the formation of dust from the charge was reduced. The intensity of coke-buming in the furnace, however, diminished

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

PA - 2390

Melting of Fluxed Sinter, Made of Kricoy Rog Iron Ores, in the Blast Furnace.

by about 0,1 $t.m^{-3}$ per 24 hours. In order to increase furnace smelting with burden, the following is suggested: careful separation of the small particles by means of a mechanic sieve, effective averaging of raw materials, exact control of the heat conditions of the furnace. It is not useful to raise the strength or to enlarge the pieces of the agglomerate at the expense of a higher content of ferrous oxide. The reducing power of the burden is higher than that of the ordinary agglomerate. (3 tables)

**ASSOCIATION:** Not given
**PRESENTED BY:**
**SUBMITTED:**
**AVAILABLE:** Library of Congress.
Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

133-58-4-8/40

AUTHORS: Raspopov, I. V. Docent and Gorbanev, Ya. S. and Sviridenko, F. F., Engineers

TITLE: The Use of a High Basicity Sinter for Smelting Phosphorus Pig Iron (Primeneniye aglomerata vysokoy osnovnosti pri peredele fosforistykh chugunov)

PERIODICAL: Stal', 1958, Nr 4, pp 306-311 (USSR)

ABSTRACT: The use of a high basicity sinter for the intensification of the process of removal of phosphorus during the melting period was tested in the open hearth melting shop of the Azovstal' Works when smelting rail steel. Chemical composition and size distribution of raw materials used for the production of sinter - Table 1, characteristics of sinter produced under laboratory conditions - Table 2 and that produced under industrial conditions - Table 3 (sinter basicity up to 14.3). Changes in the composition of metal and slag in the course of heat when using high phosphorus iron and fluxed sinter are shown in Fig.3, similar changes when using ore - Fig.1. The comparison of operating indices of open hearth heats carried out with the use of sinter and ore are given in Table 4.
Conclusions: The production of sinter with a wide range of

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The Use of a High Basicity Sinter for Smelting Phosphorus Pig Iron

fluxing from rich in iron and low-silica materials is possible. The melting temperature of fluxed sinter is considerably lower than the unfluxed sinter and in particular of that of raw ore. The use of highly fluxed sinter during smelting high phosphorus pig iron decreases the duration of the heat on average by one hour, 23 mins, and permits a substantial increase of the concentration of phosphorus in the slag. The increase of the cost of the mineral part of the charge is compensated by the increasing yield of steel. The productivity of open hearth furnaces increases by 9%. The following participated in the work: Professor I. G. Kazantsev, and Engineers: M. T. Bul'skiy, P. N. Slepkanev, A. G. Alimov, Ye. V. Tret'yakov and a research group of the Ukrainian Scientific Research Institute of Metals.
There are 4 tables, 3 figures and 4 references, all of which are Soviet.

ASSOCIATIONS: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and Zavod "Azovstal'" (Azovstal' Works)

Card 2/2

1. Sintered iron--Effectiveness 2. Steel--Manufacture 3. Slags --Properties

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

SOV/133-58-8-2/30

AUTHORS: Raspopov, I.V., Dotsent, and Gorbanev, Ya.S., Gulyga, D.V., Engineers

TITLE: The Production and Smelting of Fluxed Sinter from the Kerch' Ores (Proizvodstvo i domennaya plavka oflyusovannogo aglomerata iz Kerchenskikh rud)

PERIODICAL: Stal', 1958, Nr 8, pp 676 - 682 + 1 plate (USSR)

ABSTRACT: The production of fluxed sinter ($CaO/SiO_2$ = 0.6-0.9) and the results of operation of blast furnaces with 80% of sinter in the burden are described. Operating indices, material, heat and hydrogen balances of the furnace operation with sinters of basicities 0.16, 0.6 and 0.9 are given in Tables 4, 6, 7 and 8, respectively. Main points: for each ton of limestone withdrawn from the burden by increasing the sinter basicity from 0.16 to 0.6, a saving in coke of 365 kg was obtained. With further increase in basicity to 0.9, the amount of coke saved per 1 000 kg of limestone withdrawn from the burden decreased to 283 kg. Above 40% of hydrogen introduced into the furnace was oxidised to water. From 15 to 20% of As present in the sinter mix is removed during sintering. Conclusions: 1) on smelting a burden consisting of 80% of sinter and 20% of ore, an increase

Card1/2

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The Production and Smelting of Fluxed Sinter from the Kerchensk Ores

in the sinter basicity from 0.16 to 0.6 increased the furnace output by 6% and decreased the coke rate by 8%; the cost of iron was decreased by 10 roubles/ton. The above increase in sinter basicity was accompanied by a decrease in the limestone charged directly to the furnace by 32%; 2) for further improvement of the furnace performance, better screening of sinter is necessary. There are 8 tables, 4 figures and 3 Soviet references.

ASSOCIATIONS: Zhdanovskiy metallurgicheskiy institut (Zhdanov Metallurgical Institute) and Zavod "Azovstal'" ("Azovstal'" Works)

Card 2/2 1. Sintered ores--Production 2. Blast furnaces--Operation
3. Iron--Production

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KRASOVITSKIY, V.S.; RASPOPOV, I.V.; YEGNUS, R.M.

Device to determine the strength of metal mold coatings. Lit. proizv. no.1:47 Ja '59. (MIRA 12:1)
(Molding (Founding)—Testing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.V.

Sintering machine. Biul. TSIICHM no.3:47 '61. (MIRA 14:12)
(Sintering—Equipment and supplies)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.V.; LUKASHOV, G.G.; PLISKANOVSKIY, S.T.; ARTYUKHOV, B.N.; TARASOV, D.A.; ARIKHBAYEV, V.V.; Prinimali uchastiye: ZENYUKOV, V.P.; NEMTSOV, N.S.; GODLEVSKIY, A.I.; LEVCHENKO, G.F.; DEGTYAREVA, Z.I.; GORLACH, A.A.; YAKUSHECHKIN, Ye.I.

Intensifying the sintering process by air preheating and by improving the performance of exhaust fans. Stal' 23 no.8: 679-682 Ag '63. (MIRA 16:9)

1. Zhdanovskiy metallurgicheskiy institut i metallurgicheskiy zavod "Azovstal'."

(Sintering)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.V.; SERDYUKOV, G.V.

New developments in research. Stal' 24 no.6:572 Je '64. (MIRA 17:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.V.; SERDYUKOV, G.V.

New developments in research. Stal' 24 no.7:671 Jl '64. (MIRA 18:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

NEMISOV, N.S.; RASPOPOV, I.V.; BRAGIN, I.I.

Evaluating the durability of blast furnace charging units.
Stal' 24 no.12:1078-1079 D '64. (MIRA 18:2)

1. Zhdanovskiy metallurgicheskiy institut.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, I.V.; SERDYUKOV, G.V.

New developments in research. Stal' 25 no.8:796 [illegible]. (MIRA 18:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

NOVIKOV, V.; MATVEYEV, Yu.M.; RUZHINSKIY, M.B.; BATIST, A.I.; IOSSEL', G.; KOROLEV, M.; IVANTSOV, V.; ARONOV, I.; SVETLAKOV, V.; ZAYCHCHIK, L.Z.; RASPOPOV, I.V.; SERDYUKOV, G.V.; GRISHKOV, A.I.; MAKEYEV, I.F.; DELLO, A.A.; SHUMNAYA, V.A., inzh.; SPIRYAGIN, L.P., inzh.; GRISHKOV, A.I.; KARDONOV, B.A.; BURDIN, V.M., kand. tekhn. nauk; MOLCACHEV, D.A., inzh.; MUZALEVSKIY, O.G.; RIVKIN, A.A.; KEYS, N.V.; KOMISSAROV, A.I.

New developments in research. Stal' 25 no.8:842-845 S '65. (MIRA 18:9)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

TARASOV, V.P.; RASPOPOV, I.V.

Durability of the bells and hoppers on the new charging equipment. (MIRA 18:10)
Metallurg 10 no.10:8-11 O '65.

1. Zhdanovskiy metallurgicheskiy institut.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

YERSHOV, Yu.A.; RASPOPOV, L.N.; VOLKOV, K.F.

Ultraviolet irradiator for mass testing of polymers. Zav.lab. 31 no.10:1272-1273 '65. (MIRA 19:1)

1. Institut khimicheskoy fiziki AN SSSR, Noginskiy filial.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 00745-66 EWT(m)/EWP(j)/T RM

ACCESSION NR: AP5020961 UR/0190/65/007/008/1301/1305

AUTHOR: Raspopov, L. N.; Musayelyan, I. N.; Chirkov, N. M.; Yeremina, I. V.

TITLE: Mechanical properties of polyethylene produced in the presence of soluble catalytic systems

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 8, 1965, 1301-1305

TOPIC TAGS: solid mechanical property, polyethylene plastic, synthetic fiber, polymerization catalyst

ABSTRACT: Physico mechanical properties of polyethylene (I) obtained in the presence of soluble catalyst systems in chlorine-containing solvents, and of low pressure polyethylene (II) were compared over a wide range of molecular weights (I, $[\eta]$ = 0.7-12; M. W. 21,400-170,000; II, $[\eta]$ = 0.9-5.5). The strength of I exceeded that of II having the same $[\eta]$ value by 100-150 kgs/cm$^2$, indicating less branching and narrower molecular weight distribution in I. The crystallinity of different molecular weight samples of I decreased as cooling rate increased, and

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L 00745-66

ACCESSION NR: AP5020961

decreased somewhat with increase in molecular weight. At room temperature I was readily deformable in the $[\eta]$ = 1.25-1.40 range. Elongation at break decreased and polymer strength increased as molecular weight of I increased ($[\eta] > 1.40$). The polymer strength of I ($[\eta]$ = 2.5-4.6) decreased with increasing temperature, and elongation at break went through a maximum, indicating partial amorphization. The polymer strength of anisotropic samples of I increased and the elongation at break decreased as orientation temperature increased. Strengths of 90-100 kgs/mm$^2$ were attained at 80-90C compared to 50-60 kgs/mm$^2$ for II. Thus the polyethylene obtained by solution polymerization fulfills the strength and high orientation prerequisites for the manufacture of high strength fiber. Orig. art. has: 5 figures and 1 table

ASSOCIATION: Institut khimicheskoy fiziki AN SSSR (Institute of Chemical Physics AN SSSR)

SUBMITTED: 17Jul64 ENCL: 00 SUB CODE: MT, GC

NR REF SOV: 003 OTHER: 004

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

SIMEONOV, L.; RASPOPOVA, M.; ILIYEVA, V.

Hematoimmune autoantibodies in some diseases of the thyroid gland before and following surgery. Probl. endok. i gorm. 11 no.6:40-42 N-D '65. (MIRA 18:12)

1. Klinika bol'nichnoy khirurgii (rukovoditel' - prof. St. Dimitrov) Vysshego meditsinskogo instituta, Sofiya, Bolgariya i khirurgicheskoye otdeleniye (zav. - prof. O.V. Nikolayev) Vsesoyuznogo instituta eksperimental'noy endokrinologii (dir. - prof. Ye.A. Vasyukova), Moskva.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

GOGALADZE, A.S.; RASPOPOV, M.M.; MOIN, S.R.

Lateroscope. Vest. rent. i rad. 36 no. 1:60 Ja-F '61. (MIRA 14:4)
(X RAYS—APPARATUS AND SUPPLIES)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M.P.

Meliorative and hydrogeological districting of the northern part of the Caspian Depression between the Volga River and the Ural Mountains. Mat. VSEGEI no.20:5-31 '56. (MLRA 10:8)
(Caspian Depression--Water supply)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M.P.

Calculating the underground water balance of virgin and waste lands of the extended clayey plains of the northwestern regions of the Caspian Depression. Mat. VSEGEI no.20:32-110 '56. (MLRA 10:8)
(Caspian Depression--Water supply)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M.P.

Concerning the term "zone of aeration" and its role in hydrogeology. Izv.vys.ucheb.zav.; geol.i razv. 5 no.1:89-93 Ja '62. (MIRA 15:2)

1. Leningradskiy gornyy institut imeni G.M.Plekhanova.
(Water, Underground)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M. P.

RASPOPOV, M. P. and POLYAKOV, B. V., "Quantitative Evaluation of Underground Waters With the Aid of the Equation of Water Balance," No 2, pp 94-95.
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M. P.

Raspopov, M. P. and Isakov, Yu. A. - "Material on the ecology of the water birds of the Mologo-Sheksnin inter-river region making up the watershed", Trudy Darvinskogo gos. zapovednika na Rybin. vodokhranilishche, Issue 1, 1949, p. 172-244.

SO: U-411, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 20, 1949).

Darwin State Reserve
on the Rybinsk Reservoir

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M.P.

Underground water supply of rivers of the northeastern part of forest-steppe and steppe regions of the European part of the U.S.S.R. Geog.sbor.no.2:222-254 '53. (MLRA 7:2)

(Water, Underground)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, M.P.

Problems of moisture circulation in subsurface soils of the northwestern part of the Caspian Depression. Izv.Vses.geog.ob-va 86 no.2: 149-155 Mr-Ap '54. (MLRA 7:6)
(Caspian Depression--Soil moisture) (Soil moisture--Caspian Depression)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ARKHANGEL'SKIY, B.N.; BELYAKOVA, Ye.Ye.; GUREVICH, M.S.; ZAYTSEV, I.K., red.; ZINOV'YEVA, T.V.; MITGARTS, B.B.; MOROZOV, V.M.; PETROVA, N.A.; RASPOPOV, M.P.; TOLSTIKHIN, N.I.; TOLSTIKHIN, O.N.; POTAPOV, V.S., red.; GUROVA, O.A., tekhn. red.

[Explanatory notes to a hydrochemical map of the U.S.S.R. on a scale of 1:5,000,000] Ob"iasnitel'naia zapiska k gidrokhimicheskoi karte SSSR v masshtabe 1 : 5,000,000. Red. I.K. Zaitsev. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1958. 138 p. (MIRA 11:7)

1. Leningrad. Vsesoiuznyy geologicheskiy institut.
(Water, Underground--Maps)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, N.A.

Cost of metal supports in a stope. Sbor.trud.Inst.gor.dela AN URSR no.8:113-116 '61. (MIRA 15:2)
(Mine timbering—Costs)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, N. N.

35427. Issledovanie Morozoustoychivosti Asfal'tovogo Betona. Trudy DIIT (Dor. Iauch.-IN-T), Vyp. 3, 1949, S. 134-58

SO: Letopis' Zhurnal'nykh Statey Vol. 34, Moskva, 1949

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Calculating the values of the second vertical potential derivative from the field of the first derivative. Izv. AN SSSR. Ser. geofiz. no.8:1213-1220 Ag '64 (MIRA 17:8)

1. Leningradskiy gosudarstvennyy universitet im. A.A. Zhdanova.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O. M.; YANOVSKIY, B. M.

Field of the vertical gradient of the Z-component of the geomagnetic field over the northwestern wing of the East Asian anomaly. Izv. AN SSSR.Ser.geofiz. no. 4:548-551 Ap '64. (MIRA 17:5)

1. Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BERDICHEVSKIY, M.N.; BRYUNELLI, B.Ye.; LANTSOV, A.Ye.; RASPOPOV, O.M.

Use of natural electromagnetic variations for studying the upper layers of the earth. Uch.zap.LGU no.303:49-55 '62. (MIRA 15:11)

(Electromagnetic prospecting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KOVTUN, A.A.; RASPOPOV, O.M.

Equipment for magnetotelluric sounding. Geofiz.prib. no.8:89-97 '61. (MIRA 15:7)

(Magnetic prospecting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

S/552/60/000/027/005/008
H/000/H000

AUTHORS: Berdichevskiy, M. N., and O. M. Raspopov

TITLE: A statistical method for processing telluric current observations

SOURCE: Prikladnaya geofizika (sbornik statey), no. 27, 1960, 64-72

TEXT: The article describes a new statistical method for processing telluric current observations. The basic value determined by this method, parameter K, is expressed by the amplitudes of the telluric variations using four principal and two supplementary axes. Use of this method requires: 1) nonlinear polarization of the telluric current field; 2) quasi-sinusoidally shaped telluric pulses; and 3) parallel measuring lines for the field and base apparatus. Althougn the new method requires more time and a longer series of observations than the ellipse method, radio synchronization of field and base observations can be eliminated if necessary. The measurements are more stable, permitting the

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A statistical method (Cont.)

S/552/60/000/027/005/008
H000/H000

distance between field and base points to be increased. Practical operating procedures for use of the new method are given. There are 6 figures. There is 1 English-language reference, as follows: Kantas, K. Development in the newest geophysical research method: the Telluric. Acta Geophysica Sinica, v. 2, no. 2.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

KOPAYEV, V.V.; LAPINA, M.I.; RASPOPOV, O.M.

Variation method of determining magnetic properties of highly magnetic rocks. Izv. AN SSSR. Ser. geofiz. no.9:1354-1362 S '61. (MIRA 14:9)

1. Akademiya nauk SSSR, Institut fiziki Zemli; Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova i Kurskaya geofizicheskaya ekspeditsiya.
(Zhigayevo region--Magnetic prospecting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Method of calculating the elements determining the position of anomalous bodies by the data of gravity prospecting. Uch. zap. LGU no.286:289-296 '60. (MIRA 14:3)
(Gravity prospecting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Anomalies of the vertical gravity gradient in mountain regions. Uch. zap. LGU no.284-288 '60. (MIRA 14:3)
(Gravity prospecting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BERDICHEVSKIY, M.N.; RASPOPOV, O.M.

Statistical method of working up observational data in the telluric current method. Prikl. geofiz. no.27:64-72 '60. (MIRA 13:12)
(Electronic prospecting)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

SOV/169-59-5-4532

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 5, p 38 (USSR)

AUTHOR: Raspopov, O.M.

TITLE: On the Application of the Numerov Formula to Gravitational Prospecting

PERIODICAL: Uch. zap. LGU, 1958, Nr 249, pp 243 - 247

ABSTRACT: The utilization of the anomalous vertical gradient of gravity $\Delta \vartheta$ opens new possibilities for interpreting the results of gravitational prospecting. In the case of a gravitational field given in a plane, the calculations can be carried out by the Numerov formula (Dokl. AS USSR, 1929, Nr 4). In order to substantiate the selection of the external and internal radii of integration, the Numerov formula was transformed into a more convenient form taking into consideration the local character of the usually observed anomalies. All calculations were carried out for the point of maximum $\Delta g$ located immediately above the center of the anomalous mass of spherical form. In this way, the modified formula was obtained:

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SOV/169-59-5-4532

On the Application of the Numerov Formula to Gravitational Prospecting

$$\Delta \vartheta - \Delta \vartheta_{l_o} + \frac{\Delta g_o}{l_o} - \frac{1}{2\pi} \int_0^{2\pi} d\alpha \int_{l_o}^{R} \frac{\Delta g}{l^2} \, dl,$$

wherein $l_o$ is the radius of the central zone, R is the external radius of the domain of integration. It is to be emphasized that the error in computing $\Delta \vartheta$ by this formula, caused by limitation of the domain of integration, has an opposite sign in comparison with the error caused by the central zone, and therefore, these errors compensate each other. To avoid significant errors in computing $\Delta \vartheta$ by the ordinary Numerov formula, the presumed depth of occurrence of an anomalous mass must be taken into account, when the radius of the central zone $l_o$ and the external radius of the domain of integration R are selected.

T.S. Lebedev

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ACCESSION NR: AP4043137 S/0049/64/000/007/0999/1006

AUTHORS: Yanovskiy, B. M., (Doctor of physico-mathematical sciences), Bryunelli, B.Ye., Kovtun, A.A., Kuznetsov, N.S., Raspopov, O.M., Chicherina, N.D.

TITLE: Magnetotelluric sounding in the Central Russian Depression

SOURCE: AN SSSR. Izv. Seriya geofizicheskaya, no. 7, 1964, 999-1006

TOPIC TAGS: magnetotelluric sounding, geology, geophysics, terrestrial conductivity, magnetotelluric profiling, electrical profile

ABSTRACT: Information published earlier on magnetotelluric sounding work in the Central Russian Depression is reviewed, and new work done in the central part of the region is described. The work was undertaken to determine the value of the total longitudinal conductivity and the depth and thickness of the poorly conducting basement. Information on the relief of the bottom of the depression is contradictory; data obtained by drilling, logging and sounding are compared. It is noted that the electrical profile of the studied region can be represented schematically as a three-layer structure with an upper layer of

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

ACCESSION NR: AP4043137

relatively high resistivity, a layer of low resistivity and a base of high resistivity. It was with these initial data and concepts that an expedition from the Leningradskiy gosudarstvenny*y universitet (Leningrad State University) began magnetotelluric sounding work in the summer of 1962. Sounding was done at four points along a profile running across the assumed strike of the axis of the depression. Several days were spent at each point. The variations of the $H_x$ $H_y$Ex and $E_y$ components of the electromagnetic field were recorded. Variations with different periods were recorded continuously for the period from 14 August through 4 September, 1962. A spectrum of variations from 5-10 to 2000-3000 seconds was obtained at each point. The vectors of variations in E and H in most cases were not perpendicular to one another. For periods of less than 400 seconds they were nonperpendicular by only 2-8°, but for greater periods the deviation was 10-15°. The methods and formulas used in processing the data are presented. It was found that all the curves obtained in approximately the same geological region differ in behavior in the region of small periods, indicating considerable variation in the sedimentary complex of the studied region. In addition, in the region of large periods on all the sounding curves, there was a maximum indicating an increase in conductivity at great depths. A formula for estimating the thickness of poorly conducting layers is given. The new magnetotelluric sounding data are

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ACCESSION NR: AP4043137

compared with drilling data. It was found that the depth of the upper surface of the well-conducting layer varies from point to point in the range 200-400 km; it is noted that variations of this scale also have been reported elsewhere in the literature. Orig. art. has: 7 formulas, 3 figures and 3 tables.

ASSOCIATION: Leningradskiy gosudarstvenny*y universitet imeni A. A. Zhdanova (Leningrad State University)

SUBMITTED: 10Jul63 ENCL: 00

SUB CODE: ES NO REF SOV: 012 OTHER: 002

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

AUTHOR: Raspopov, O.M. SOV/49-59-8-19/27

TITLE: The Character of a Vertical Gravity Gradient in Mountains

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya, 1959, Nr 8, pp 1231-1234 (USSR)

ABSTRACT: The results of measurements of the vertical gravity gradient $\Delta g$ in the Caucasus are tabulated on p 1232. A typical character of $\Delta g$ in this region is illustrated by two examples, where the profile 1 (for points 7,11,13, 15,18,24 in the Table) and the profile 2 (points 3,4,6,8, 9,10,12,14,16) are illustrated in Fig 1,a,b. A sharp decrease of $\Delta g$ in river valleys (points 17,22,31,32,34) should be noted. To verify the effect of the surface relief on $\Delta g$ an analysis was made using a model representing a valley of the River Alazan. The resulting curve, Fig 1B, shows an agreement with the natural conditions. There are 1 figure, 1 table and 3 Soviet references.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A. A. Zhdanova (Leningrad State University imeni A. A. Zhdanov)

SUBMITTED: May 22, 1958

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Calculating the vertical gradient of gravity by a given distribution of gravity anomalies on surfaces of any form. Uch. zap. LGU 278:248-251 '59. (MIRA 13:2)

(Gravity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Method of calculating the effect of topographic masses on the magnitude of a vertical gravity gradient. Uch. zap. LGU no.278: 252-262 '59. (MIRA 13:2)

(Gravity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 24142-65 EEC(k)-2/EWA(h)/EWT(1)/EEC(t)/EEC(m)/FCC Pi-4/Po-4/Peb GM
ACCESSION NR: AP4040718 S/0203/64/004/003/0619/0621

AUTHOR: Raspopov, O. M.; Chicherina, N. D.

TITLE: An experiment on recording geomagnetic field variations with a period of less than five seconds

SOURCE: Geomagnetizm i aeronomiya, v. 4, no. 3, 1964, 619-621

TOPIC TAGS: geomagnetic field variation, horizontal field magnetometer, short period geomagnetic variation

ABSTRACT: During 1961-1963 a horizontal-field magnetometer was developed at LGU (Leningrad State University) to measure short-period variations (less than 5 sec) in the geomagnetic field. The instrument was developed on the basis of the magnetometer designed by B. Ye. Bryunelli (S. P. Bakalinskiy, B. Ye. Bryunelli, and N. F. Krotevich. Registratsiya geomagnitnykh pul'satsiy vysokochuvstvitel'nym magnitometrom. Inform. byull. MGG, 1959, no. 7; B. Ye. Bryunelli, Vysokochuvstvitel'nyy H-magnitometr. Elektromagnitnoye zondirovaniye i magnitnotellurichеskiye metody razvedki. Materialy Vsesoyuzn. confer., Aprel' 1961, Izd. LGU, 1963). A first model used single-string suspension with a natural period of 1-2 seconds.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

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A later modification used metallic tension wires. In 1963 the latest form employed quartz tension wires. This instrument has high operating stability and a small temperature coefficient (V.N. Bobrov, Universal'nyy vysokostabil'nyy chuvstvitel'nyy element s nulevym temperaturnym koeffitsientom dlya magnitometrov, variometrov i mikrovariometrov, registriruyushchikh lyubuyu komponentu zemnogo magnitnogo polya. Voprosy zemnogo magnetizma. Tr. IZMIRAN, 1963, no. 18, 28). The characteristics are: scale divisions of 30 gammas/mm, a period of torsional oscillation of 0.3 sec, and a magnetic moment of 4 CGSM units. The small size of the magnetic system yields parasitic mechanical oscillations much smaller than in previous designs. They are on the order of 0.1-0.15 sec. The instrument permits recording of fluctuations with periods as low as 0.15-0.2 sec, but this possibility has not been reached in practice. Because of its sensitivity, the noise level is on the same order as the amplitude of the desired signal in this range (0.02-0.4 gammas). Periods greater than 0.3 sec, however, can be recorded much more readily, with acceptable accuracy. With a filter system, precision may lie within the limits of 0.005-0.006 gammas. Orig. art. has: 2 figures.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 24142-65
ACCESSION NR: AP4040718

ASSOCIATION: Leningradskiy Gosudarstvennyy universitet, Kafedra fiziki Zemli (Leningrad State University, Department of Earth Physics)

SUBMITTED: 29Nov63 ENCL: 00 SUB CODE: ES

NO REF SOV: 008 OTHER: 000

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O. M., OCHAPOVSKIY, B. L. and SYTINSKIY, A. D.

"On the Vertical Gradient of Gravity," an article in the Scientific Notes of the Leningrad Order of Lenin State University imeni A. A. Zhdanov, No. 210, Physics Institute, Physical Science Series, No. 9, Geophysics, 1956, 190 pp.

SUM: 1360

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

OCHAPOVSKIY, B.L.; RASPOPOV, O.M.; SYTINSKIY, A.D.

Vertical gradient of the force of gravity. Uch.zap.Len.un. no.210: 114-133 '56. (MLRA 9:8)

(Gravity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Using Numerov's formula for gravity prospecting. Uch. zap. LGU no.249:243-247 '58. (MIRA 11:5)
(Prospecting--Geophysical methods) (Gravity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

RASPOPOV, O.M.

Method of reducing gravity values while taking the anomalous vertical gradient into consideration. Uch. zap. LGU no.249:248-260 '58. (MIRA 11:5)
(Gravity)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 14644-66 EWT(1)/FCC GM SOURCE CODE: UR/3175/65/000/026/0100/0105

ACC NR: AT6004300

AUTHOR: Kazak, B. N.; Raspopov, O. M.

ORG: none

TITLE: A magnetic microvariometer with automatic control

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye byuro. Geofizicheskaya apparatura, no. 26, 1965, 100-105

TOPIC TAGS: geomagnetic field, automatic control, earth science instrument, magnetometer, galvanometer

ABSTRACT: The authors describe an HDZ-microvariometer developed at Leningrad State University for detailed study of short-period oscillations in the geomagnetic field during the IQSY. The device is completely automated and requires an operator only for changing the recording tape twice a day. The instrument can be used for recording periods of variation in a range of 5-600 sec. A block diagram of the instrument is given. The signal from the H-, D- and Z-magnetometers is fed to M-196 galvanometers and recorded on photographic paper. Also recorded on the magnetogram are time marks from chronometer signals. The operation of the various individual elements in

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L 14644-66
ACC NR: AT6004300

the unit is described. A battery power supply with stabilization circuits makes the device convenient for work both in observatories and under field conditions. Orig. art. has: 5 figures.

SUB CODE: 08/13/ SUBM DATE: 00/ ORIG REF: 010/ OTH REF: 000

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

L 05863-67 EWT(1)/FCC GW

ACC NR: AT6022633 (A) SOURCE CODE: UR/2950/65/000/005/0025/0026

37
B+1

AUTHOR: Raspopov, O. M.

ORG: Leningrad State University im. A. A. Zhdanov (Leningradskiy gosudarstvennyy universitet)

TITLE: Measuring the vertical intensity component of the Earth's magnetic field

SOURCE: EIKA, Entsiklopediya izmereniy, kontrolya i avtomatizatsii (Encyclopedia of measurement, control, and automation), no. 5. Moscow, Izd-vo Energiya, 1965, 25-26

TOPIC TAGS: geomagnetism, magnetometer, geomagnetic measurement

ABSTRACT: A brief description is given of the most commonly used methods of measuring the vertical intensity component of the geomagnetic field (the Z-component). Three such measures are considered: one absolute method (nuclear-resonance), and two relative methods (magnetometer and electrical). The essential features of each method are briefly described, and a few important mathematical expressions are given. The discussion of the magnetometer method also contains a brief description, together with block diagrams, of two Soviet-manufactured magnetometers: the M-18 and M-2. Orig. art. has: 2 figures.

SUB CODE: 08,14/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 001

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Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013442

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001344

BRYUNETTI, B.Ye.; KOVTUN, A.A.; KUZNETSOV, N.S.; RASPOPOV, O.M.; CHICHERINA, N.D.; YANOVSKIY, B.M.

Studying the structure of the Central Russian Depression by the magnetotelluric method. Uch. zap. LGU no.324:3-16 '64. (MIRA 18:4)

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